

2/9 ၓ C/2 Primary Germline Transcript Spliced Germline Transcript RNA Processing **∑** C_α1 ટ્ Cys = Constant Exons = I Exon S Ch Ch

Germline Ig Alpha-2 Probe

CAGCCAGACGCCCGTGAGGGTGGACCTGCCATGAGGGCCTGCACGCCGGAGGCCGCCCACTCAGCACTGCGGGCCCTTCA GCAGCCTGACCAGCATCCCCGACCAGCCCCCAAGGTCTTCCCGCTGAGCCTCGACAGCACCCCCCCAAGATGGGAACGTGGT CGTCGCATGCCTGGTCCAGGGCTTCTTCCCCCAGGAGCCACTCAGTGTGACCTGGAGCGAAAAGCGGACAGAACGTGACCG

Germline Ig Epsilon Probe

GGCTCCACTGCCCGGCACAGAAATAACAACCACGGTTACTGATCATCTGGGAGCTGTCCAGGAACCCGACAGGGAGCCGG **ACGGGCCACACCATCCACAGGCACCAAATGGACGACCCGGCGCTTCAGCCTCCACACAGAGCCCATCCGTCTTCCCCTTG** ACCCGCTGCTGCAAAACATTCCCTCCAATGCCACCTCCGTG

Germline Ig Gamma 1 Probe

CAGCCAGGACCAAGGACAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCTCCTACAAGAGCACCTCTGG GGGCACAGCGGCCCTGGCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGA CCAGCGGCGTGCACACCTTCCCGGCTGTCCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCC **AGCAGCTTGGGCACCCAGACCTACATCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCC** ACACACCAGAGGCTGACTGAGGCCTCCAGGACGACGGCTGGGAGCACGAGGAACATGACTGGATGCGGCAGAGAGC **AACGGAGGGCTTGTCCAGGCCGGCAGCATCACCGGAGCCCAGGGCAGGGTCAGCAGTGCTGGCCGTGGGGCCCTCCTCT** CAAATCTTGTGACAAAACTCACACATGCCCACCG

FIG._34

CCAAGCCAACAGGGCAGGACACCACAGGGCTGACTGAGCCTCCATGACGACCAGGCTGGGGAGCACGAGGAACATGACG GGATGCGGCAGAGCCGGCCGTGGGGTGATGCCAGCATGGGCAGGACCCACCTGAGCTGAGGAGGCAGTAGAACGAGGGAG GAGGAGAGGCCCCAGGTGAACGGAGGGGCTTGTCCAGGCCAGCATCACTGGAGCCCAGGGCAGGGTCAGCAGTGCTG GCCGTGGGGCCCTCTCTCAGCCAGGACCAAGGACAGCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCGCCTGC **TCCAGGAGCACCTCCGAGAGCACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCCGAACCGGTGACGGTGTCGT** GAACTCAGGCGCTCTGACCAGCGGCGTGCACACCTTCCCAGCTGTCCTACAGTCCTCAGGACTCTACTCCTCAGGAGG TGGTGACCGTGCCCTCCAGCAACTTCGGCACCCAGACCTACACCTGCAACGTAGATCACAAGCCCAGCAACACCAAGGTG GACAAGACAGTTGAGCGCAAATGTTGTGTCGAGTGCCCACCGTGCCCAGCACCTGTGGCAGGACCGTCA

Germline Ig Gamma 2 Probe

Germline Ig Gamma 3 Probe

CAGCCAGGACCAAGGACAGCATCCACCAAGGGCCCATCGGTCTTCCCCCTGGCGCCTGCTCCAGGAGCACCTCTGG GGGCACAGCGCCCTGGCTGCTGGTCAAGGACTACTTCCCCGAACCGGTGACGGTGTCGTGGAACTCAGGCGCCCTGA CCAGCGGCGTGCACACCTTCCCGGCTGTCCTACAGTCCTCAGGACTCTACTCCTCAGCAGCAGCGTGGTGACCGTGCTGCTCC **AGCAGCTTGGGCACCCAGACCTACACCTGCAACGTGAATCACAAGCCCAGCAACACCAAGGTGGACAAGAGAGTTGAGCT ACACACAGAGGCTGACTGAGGCCTCCAGGACGACGACCGGGCTGGGAGCGTGAGGAACATGACGGGATGGGGCAGAGCAGA aaccgagggcttgtccaggccggcagcatcaccggagcccagggcagggtcagcaggagctggccgtaggccctcctc** CAAAACCCCACTTGGTGACACACACACACATGCCCACGGTGCCCAGAGCCCAAATCTTGTGACACACCTCCCCGTGCC CACGGTGCCC

Germline Ig Gamma 4 Probe

TGAGCTCAGGAGGCAGCAGAGGAGGAGGAGGAGGAGGCCCCAGGTGAACGGAGGGGCTTGTCCAGGCCGGCAGCATCAC CAGAGCCCAGGGCAGGGTCAGCAGAGCTGGCCGTAGGGCCCTCCTCTCAGCCAGGACCAAGGACAGCAGCTTCCACCAAG GGCCCATCCGTCTTCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGAGCACAGCCGCCCTGGGCTGCCTGGTCAAGGA CTACTICCCCGAACCGGIGACGGIGICGIGGAACICAGGCGCCCIGACCAGCGGCGIGCACACCIICCCGGCIGIGCIAC **AGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTGACCGTGCCCTCCAGCAGCTTGGGCACGAAGACCTACACCTGCAAC** GGCCAGCACCACATGGAAGCCCAAGCGGAGCCAGCACGGGGGAGGTGGGCAGCCTTCAGGCACTGATGCCCACCAGTGC STAGATCACAAGCCCAGCAACACCCAAGGTGGACAAGAGAGTTGAGTCCAAATATGGTCCCCGTC

FIG._3B

Germline Ig Alpha-1 Probe

TGAGGGCCTGCACGCCGGAGGCCGCCCACTCAGCACTGCGGGCCCTCCAGCAGCTGACCAGCATCCCCGACCAGCACCAGCCCA

Germline Ig Alpha-2 Probe

CGTCGCATGCCTGGTCCAGGGCTTCTTCCCCCAGGAGCCACTCAGTGTGACCTGGAGCGAAAAGCGGACAGAACGTGACCG CAGCCAGACGCCCGTGAGGGTGGACCTGCCATGAGGGCCTGCACGCCGGAGGCCGCCCACTCAGCACTGCGGGCCCTCCA GCAGCCTGACCAGCATCCCCGACCAGCCCCAAGGTCTTCCCGCTGAGCCTCGACAGCACCCCCCAAGATGGGAACGTGGT TGCCCAGACGCCAAGTCCGTGACATGCCAC

Germline Ig Epsilon Probe

GGCTCCACTGCCCGGCACAGAAATAACAACCACGGTTACTGATCATCTGGGAGCTGTCCAGGAACCCGGACAGGGAGCCGG ACGGGCCACACCATCCACAGGCACCAAATGGACGACCCGGCGCTTCAGCCTCCACACAGAGCCCATCCGTCTTCCCTTG ACCCGCTGCTGCAAAAACATTCCCTCCAATGCCACCTCCGTG

Germline Ig Gamma 1 Probe

AACGGAGGGCTTGTCCAGGCCGGCAGCATCACCGGAGCCCAGGGCAGGGTCAGCAGTGCTGGCCGTGGGGCCCTCCTCT CAGCCAGGACCAAGGACAGCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCTCCTCCAAGAGCACCTCTGG **ACACACCAGAGGCTGACTGAGGCCTCCAGGACGACGACCGGGCTGGGAGCACGAGGAACATGACTGGATGCGGCAGAGCCGGC** GGGCACAGCGCCCTGGCTGCTCGAAGGACTACTTCCCCGGAACCGG

F/G._4A

Germline Ig Gamma 2 Probe

CCAAGCCAACAGGGCAGGACACACCAGAGGCTGACTGAGGCCTCCATGACGACCAGGCTGGGAAGAGGAGGAACATGACG GGATGCGGCAGAGCCGGCCGTGGGGTGATGCCAGCATGGGCAGGACCCACCTGAGCTGAGGAGGCAGTAGAACGAGGAG GAGGAGAGGCCCCAGGTGAACGGAGGGGCTTGTCCAGGCCAGCATCACTGGAGCCCAGGGCAGGGTCAGCAGTGCTG GCCGTGGGGCCCTCTCTCAGCCAGGACCAAGGACAGCAGCCTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCGCCTTGC ICCAGGAGCACCECCGAGAGACACAGCGGCCCTGGGCTGCCTGGTCAAGGACTACTTCCCCGGAACCGG

Germline Ig Gamma 3 Probe

CAGCCAGGACCAAGGACAGCAGCTTCCACCAAGGGCCCATCGGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCTGG <u> AACCGÀGGGGCTTGTCCAGGCCGGCAGCATCACCGGAGCCCAGGGCAGGGTCAGCAGAGCTGGCCGTAGGGCCCTCCTCT</u> **GGGCACACAGCGGCCCTGGCTGCCTGGTCAAGGACTACTTCCCCGGACCGGTGACGGTGTGTCGTGGAACTCAG**

Germline Ig Gamma 4 Probe

TGAGCTCAGGAGGCAGCAGGAGGAGGAGGAGGAGGCCCCAGGTGAACGGAGGGGCTTGTCCAGGCCGGCAGCATCAC CAGAGCCCAGGGCAGGGTCAGCAGAGCTGGCCGTAGGGCCCTCCTCTCAGCCAGGACCAAGGACAGCAGCTTCCACCAAG GGCCCATCCGTCTTCCCCCTGGCGCCCTGCTCCAGGAGCACCTCCGAGAGCACAGCGCCGCCCTGGGCTGCCTGGTCAAGGA CTACTTCCCCGAACCGG

=1G._4B

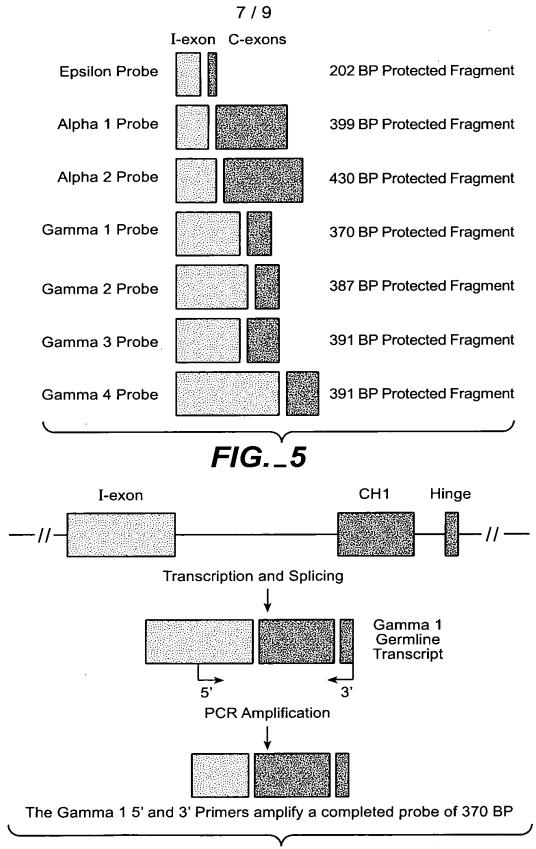


FIG._6

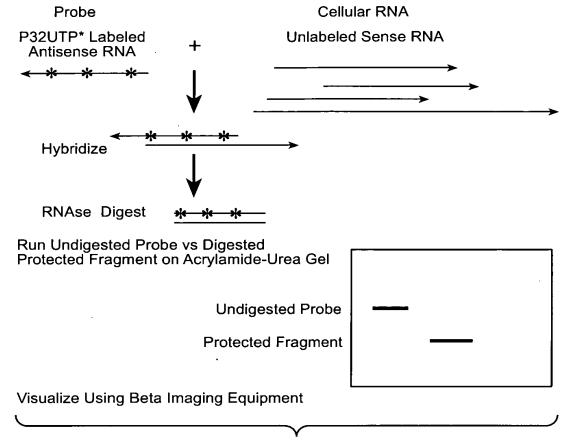


FIG._7

Α	ln	ha	-1

L04541 = I Region Exon BC005951 = Constant Region Exons

Alpha-2

L04541 = I Region Exon AL389978 = Constant Region Exons

Epsilon

X56797= I Region Exon J00222 = Constant Region Exons

Gamma-1

A2122127 = I Region Exon Z17370 = Constant Region Exons

Gamma-2

U39934 = I Region Exon J00230 = Constant Region Exons

Gamma-3

Al122127 = I Region Exon X16110 = Constant Region Exons

Gamma-4

X56796 = I Region Exon K01316 = Constant Region Exons

